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Attorney's Docket No.: 12557-009001

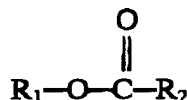
In the claims:

Please amend the claims as follows:

1-21. (Canceled).

22. (Previously Amended) A method for control of unwanted nematodes, the method comprising administering to mammals, plants, seeds or soil a nematicidal composition comprising:

- (a) an effective amount of a compound having the formula



wherein:

B1 R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

- (b) an aqueous surfactant.

23. (Previously Amended) The method of claim 22 wherein R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of:

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hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and an unsubstituted C1-C2 carbon chain.

24. (Previously Amended) The method of claim 22 wherein R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and an unsubstituted C1-C2 carbon chain.

25-28. (Canceled).

29. (Previously Amended) The method of claim 22 wherein R_1 is a C1-C2 substituted or unsubstituted carbon chain.

30. (Previously Amended) The method of claim 22 wherein R_2 is substituted only at one or both of 12th and 13th carbons.

31. (Previously Amended) The method of claim 22 wherein R_2 is substituted only at the 12th carbon.

32-33. (Canceled).

34. (Previously Amended) The method of claim 22 wherein within R_2 the substituents are selected from the group consisting of: hydroxy, epoxy, and a C1 alkyl.

35. (Original) A method for control of unwanted nematodes, the method comprising administering to mammals, plants, seeds or soil a nematicidal composition comprising an effective amount of:

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(a) a fatty acid methyl ester selected from the group consisting of: ricinoleic acid methyl ester, crepenynic acid methyl ester, and vernolic acid methyl ester; and

(b) an aqueous surfactant.

36. (Previously Amended) The method of claim 22 or claim 35 wherein the aqueous surfactant is selected from the group consisting of: ethyl lactate, polyoxyethylene sorbitan 20 monolaureate, polyoxyethylene 9 nonylphenyl ether.

37. (Original) The method of claim 22 or claim 35 wherein the composition further comprises:

(c) a permeation enhancer.

38. (Original) The method of claim 37 wherein the permeation enhancer is a cyclodextrin.

39. (Original) The method of claim 22 or 35 wherein the composition comprises:

(c) a co-solvent.

40. (Original) The method of claim 39 wherein the co-solvent is isopropanol.

41. (Original) The method of claim 22 or claim 35 further comprising administering a nematocide selected from the group consisting of: avermectins, ivermectin, and milbemycin.

42. (Original) The method of claim 22 wherein the nematode infects plants and the nematocidal composition is applied to the soil or to plants.

43. (Original) The method of claim 42 wherein the nematocidal composition is applied to soil before planting.

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44. (Original) The method according to claim 42 where the nematicidal composition is applied to soil after planting.

45. (Original) The method of claim 42 wherein the nematicidal composition is applied to soil using a drip system.

46. (Original) The method of claim 42 wherein the nematicidal composition is applied to soil using a drench system.

47. (Original) The method of claim 42 wherein the nematicidal composition is applied to plant roots.

48. (Original) The method of claim 22 wherein the nematicidal composition is applied to seeds.

49. (Original) The method of claim 22 wherein the nematode infects a mammal.

50. (Original) The method of claim 22 wherein the nematicidal composition is administered to non-human mammal.

51. (Original) The method of claim 22 wherein the nematicidal composition is administered to a human.

52. (Original) The method of claim 50 wherein the nematicidal composition is formulated as a drench to be administered to a non-human animal.

53. (Original) The method of claim 49 wherein the nematicidal composition is formulated as an orally administered drug.

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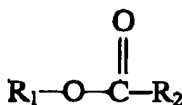
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54. (Original) The method of claim 49 wherein the nematicidal composition is formulated as an injectable drug.

55-64. (Canceled).

65. (Currently Amended) A nematicidal composition comprising ~~consisting essentially of~~:

(a) an effective amount of a compound having the formula



wherein:

R₁ = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a C1-C2 substituted or unsubstituted carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

R₂ = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy;

(b) an aqueous surfactant; and

(c) a permeation enhancer.

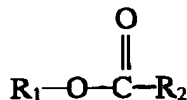
66. (Canceled).

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67. (Previously Added) A nematicidal composition comprising:

(a) an effective amount of a compound having the formula



wherein:

R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a C1-C2 substituted or unsubstituted carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy;

(b) an aqueous surfactant; and

(c) a nematicide selected from the group consisting of: avermectins, ivermectin, and milbemycin.

68. (Currently Amended) The composition of claim 65 or 67 ~~any of claims 65-67~~ wherein the aqueous surfactant is selected from the group consisting of: ethyl lactate, polyoxyethylene 20 sorbitan monolaureate, polyoxyethylene 9 nonylphenyl ether.

69. (Previously Added) The composition of claim 65 wherein the permeation enhancer is a cyclodextrin.

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70. (Currently Amended) The composition of claim 65 or 67 further comprising a claim 66 wherein the co-solvent is isopropanol.

71. (Newly Added) The nematicidal composition of claim 70 wherein the co-solvent is isopropanol.

72. (Newly Added) The nematicidal composition of claim 65 or 67 wherein R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a singly or multiply substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy.

73. (Newly Added) The nematicidal composition of claim 65 or 67 wherein R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and an unsubstituted C1-C2 carbon chain.

74. (Newly Added) The nematicidal composition of claim 65 or 67 wherein R_1 is a C1-C2 substituted or unsubstituted carbon chain.

75. (Newly Added) The nematicidal composition of claim 69 or 67 wherein R_2 is substituted only at one or both of 12th and 13th carbons counting from the carbonyl carbon.

76. (Newly Added) The nematicidal composition of claim 75 wherein R_2 is substituted only at the 12th carbon counting from the carbonyl carbon.

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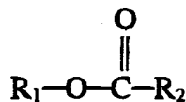
77. (Newly Added) The composition of claim 75 wherein within R_2 the substituents are selected from the group consisting of: hydroxy, epoxy, and a C1 alkyl.

78. (Newly Added) The nematicidal composition of any of claims 72-77 wherein the aqueous surfactant is selected from the group consisting of: ethyl lactate, polyoxyethylene 20 sorbitan monolaureate, polyoxyethylene 9 nonylphenyl ether.

79. (Newly Added) The nematicidal composition of any of claims 72-77 further comprising a co-solvent.

80. (Newly Added) A nematicidal composition comprising:

(a) an effective amount of a compound having the formula



wherein:

R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a C1-C2 substituted or unsubstituted carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

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(b) an aqueous surfactant selected from the group consisting of: ethyl lactate, polyoxyethylene 20 sorbitan monolaureate, polyoxyethylene 9 nonylphenyl ether.

81. (Newly Added) The nematicidal composition of claim 80 wherein R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a singly or multiply substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy.

B1
82. (Newly Added) The nematicidal composition of claim 80 wherein R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and an unsubstituted C1-C2 carbon chain.

83. (Newly Added) The composition of claim 80 wherein R_1 is a C1-C2 substituted or unsubstituted carbon chain.

84. (Newly Added) The composition of claim 80 wherein R_2 is substituted only at one or both of 12th and 13th carbons counting from the carbonyl carbon.

85. (Newly Added) The composition of claim 80 wherein R_2 is substituted only at the 12th carbon counting from the carbonyl carbon.

86. (Newly Added) The composition of claim 85 wherein within R_2 the substituents are selected from the group consisting of: hydroxy, epoxy, and a C1 alkyl.

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87. (Newly Added) A nematocidal composition comprising:

- (a) a fatty acid methyl ester selected from the group consisting of: ricinoleic acid methyl ester, crepenynic acid methyl ester, and vernolic acid methyl ester; and
- (b) an aqueous surfactant selected from the group consisting of: ethyl lactate, polyoxyethylene 20 sorbitan monolaureate, polyoxyethylene 9 nonylphenyl ether.

88. (Newly Added) The nematocidal composition of any of claims 80-87 wherein the composition further comprises:

- (c) a permeation enhancer.

89. (Newly Added) The nematocidal composition of claim 88 wherein the permeation enhancer is a cyclodextrin.

90. (Newly Added) The nematocidal composition of any of claims 80-87 wherein the composition further comprises:

- (c) a co-solvent.

91. (Newly Added) The nematocidal composition of any of claims 80-87 further comprising:

- (c) a permeation enhancer; and
- (d) a co-solvent.

92. (Newly Added) The nematocidal composition of claim 90 or 91 wherein the co-solvent is isopropanol.

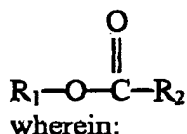
93. (Newly Added) The nematocidal composition of any of claims 81-92 wherein the composition further comprises a nematocide selected from the group consisting of: avermectins, ivermectin, and milbemycin.

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94. (Newly Added) A nematicidal feed for a non-human mammal comprising:

- (a) a feed that has been treated to reduce linoleic acid content, linolenic acid content or both;
- (b) an effective amount of a nematicidal compound having the formula



B1

R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy;

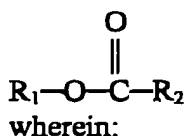
and

R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons and either: (i) a triple bond between the 12th and 13th carbons or (ii) either a single or double bond between the 12th and 13th carbons and at least one substituent at one or both of the 12th and 13th carbons, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

- (c) an aqueous surfactant.

95. (Newly Added) A nematicidal feed for a non-human mammal comprising:

- (a) a feed selected from the group consisting of: soy, wheat, corn, sorghum, millet, alfalfa, clover, and rye;
- (b) an effective amount of a nematicidal compound having the formula



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R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy;

and

R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons and either: (i) a triple bond between the 12th and 13th carbons or (ii) either a single or double bond between the 12th and 13th carbons and at least one substituent at one or both of the 12th and 13th carbons, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

(c) an aqueous surfactant.

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96. (Newly Added) The nematocidal feed of claim 94 or 95 wherein R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituents are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a singly or multiply substituted or unsubstituted C1-C2 carbon chain, wherein the substituents on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy.

97. (Newly Added) The nematocidal feed of claim 94 or 95 wherein R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituent at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituents are selected from the group consisting of hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and an unsubstituted C1-C2 carbon chain.

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98. (Newly Added) The nematicidal feed of claim 94 or 95 wherein R_1 is a C1-C2 substituted or unsubstituted carbon chain.

99. (Newly Added) The nematicidal feed of claim 94 or 95 wherein R_2 is substituted only at one or both of 12th and 13th carbons counting from the carbonyl carbon.

100. (Newly Added) The nematicidal feed of claim 99 wherein R_2 is substituted only at the 12th carbon counting from the carbonyl carbon.

101. (Newly added) The nematicidal feed of claim 99 wherein within R_2 the substituents are selected from the group consisting of: hydroxy, epoxy, and a C1 alkyl.

B1 102. (Newly Added) A nematicidal feed for a non-human mammal comprising:

(a) a feed that has been treated to reduce linoleic acid content, linolenic acid content or both;

(b) a fatty acid methyl ester selected from the group consisting of: ricinoleic acid methyl ester, crepenynic acid methyl ester, and vernolic acid methyl ester; and

(c) an aqueous surfactant.

103. (Newly Added) The nematicidal feed of claim 102 wherein both the gamma linolenic acid content and the alpha linolenic acid content have been reduced.

104. (Newly Added) A nematicidal feed for a non-human mammal comprising:

(a) a feed selected from the group consisting of: soy, wheat, corn, sorghum, millet, alfalfa, clover, and rye;

(b) a fatty acid methyl ester selected from the group consisting of: ricinoleic acid methyl ester, crepenynic acid methyl ester, and vernolic acid methyl ester; and

(c) an aqueous surfactant.